



POTOMAC YARD METRORAIL STATION DESIGN

Potomac Yard Metrorail
Implementation Work Group
November 16, 2015





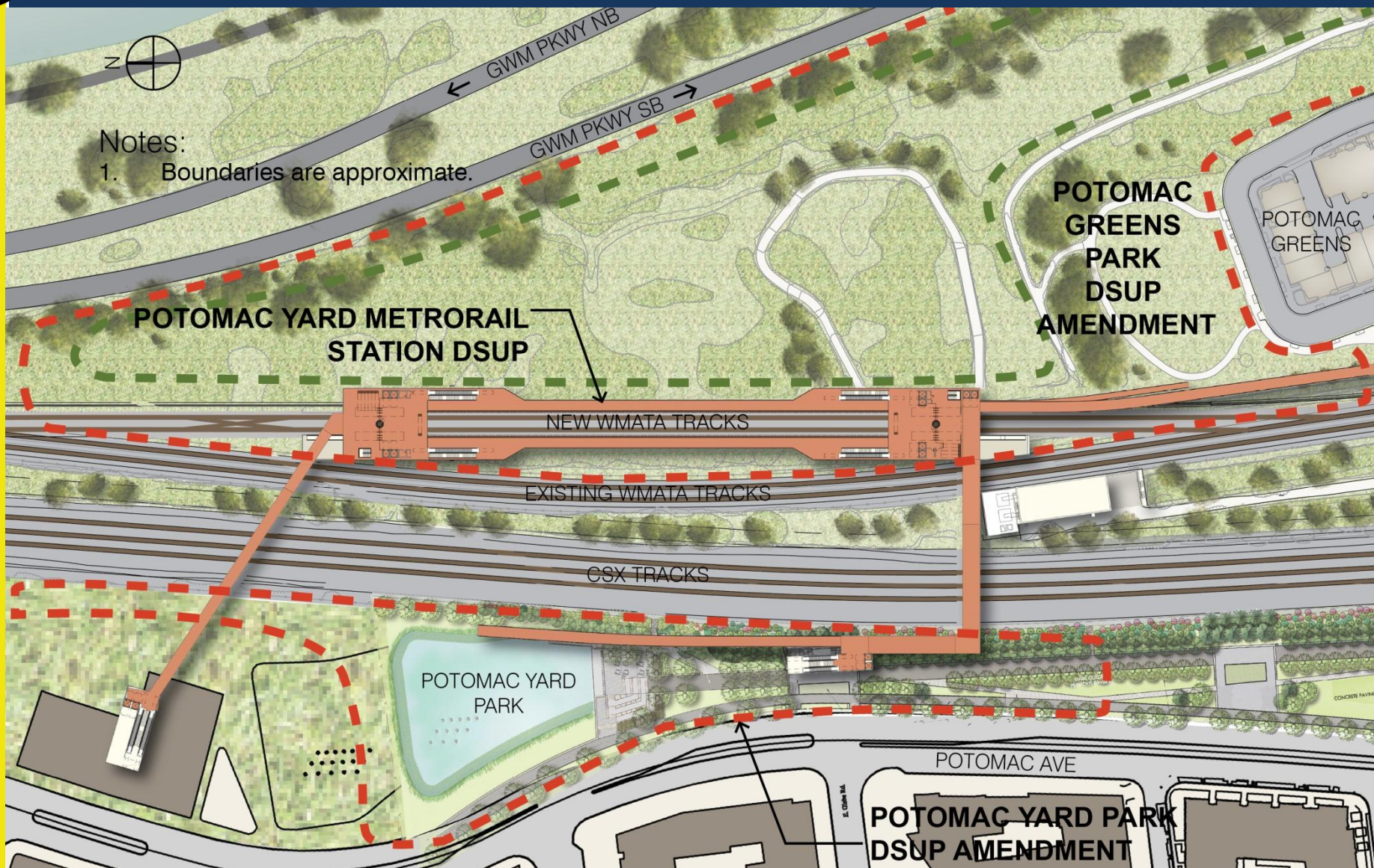
AGENDA

- I. Introductions
- II. Review of Previous Meeting & Feedback
- III. Station Enclosure Forms
- IV. Potomac Greens Park Concepts
- V. Small Group Discussion
- VI. Group Exercise
- VII. Next Steps
- VIII. Comments/Questions
- IX. Adjourn



REVIEW OF PREVIOUS MEETING & FEEDBACK RECEIVED

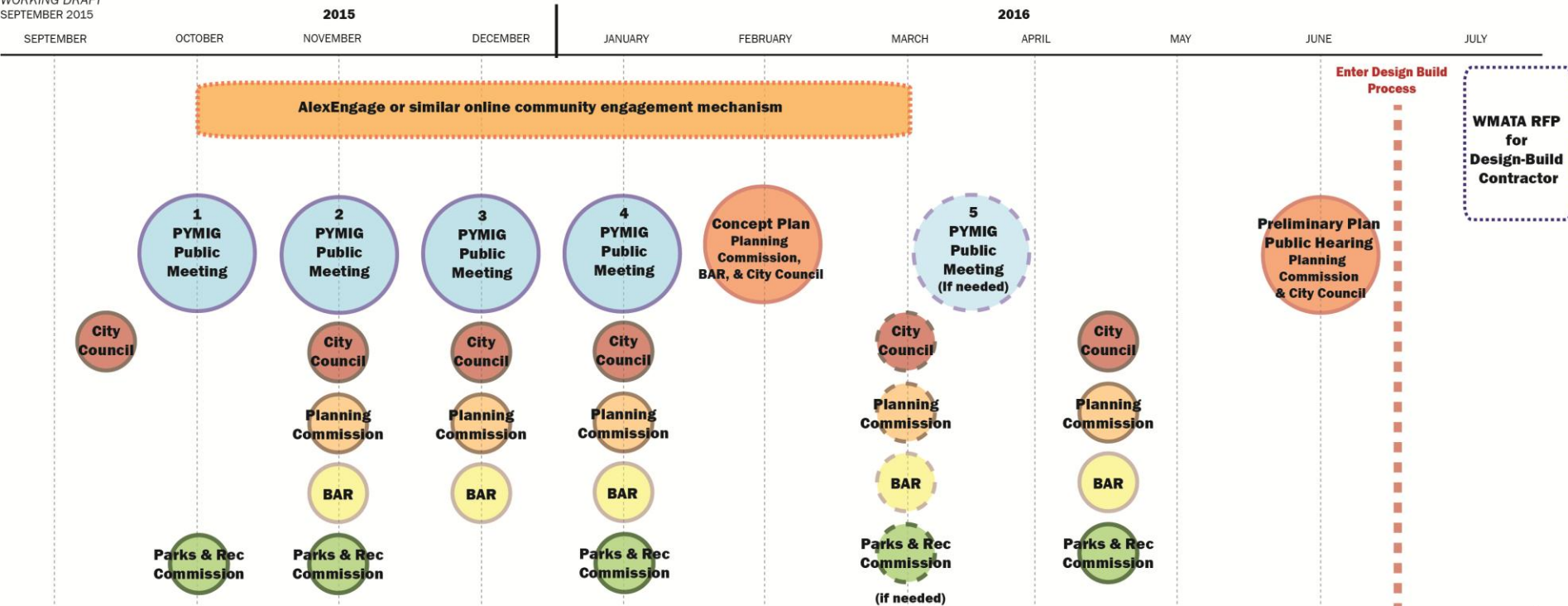
CITY APPROVALS



PROCESS

POTOMAC YARD METRORAIL STATION PROCESS FRAMEWORK

WORKING DRAFT
SEPTEMBER 2015



WORKING DRAFT

Note: This framework is a working draft and is subject to change



DESIGN PRINCIPLES

APPEARANCE

The station design and materials will be high quality, enduring, cohesive, and reflect the function of the station

The materials will be appropriate to the use and scale of the station

CONTEXT

The station design and configuration will balance the characteristics of the various settings - the adjoining parks, parkway, residential and mixed-use neighborhoods

ENVIRONMENT

The station and infrastructure will be designed to enhance its immediate environment of wetland, woodland, and open space

The station system design will make use of materials and strategies that are environmentally sensitive

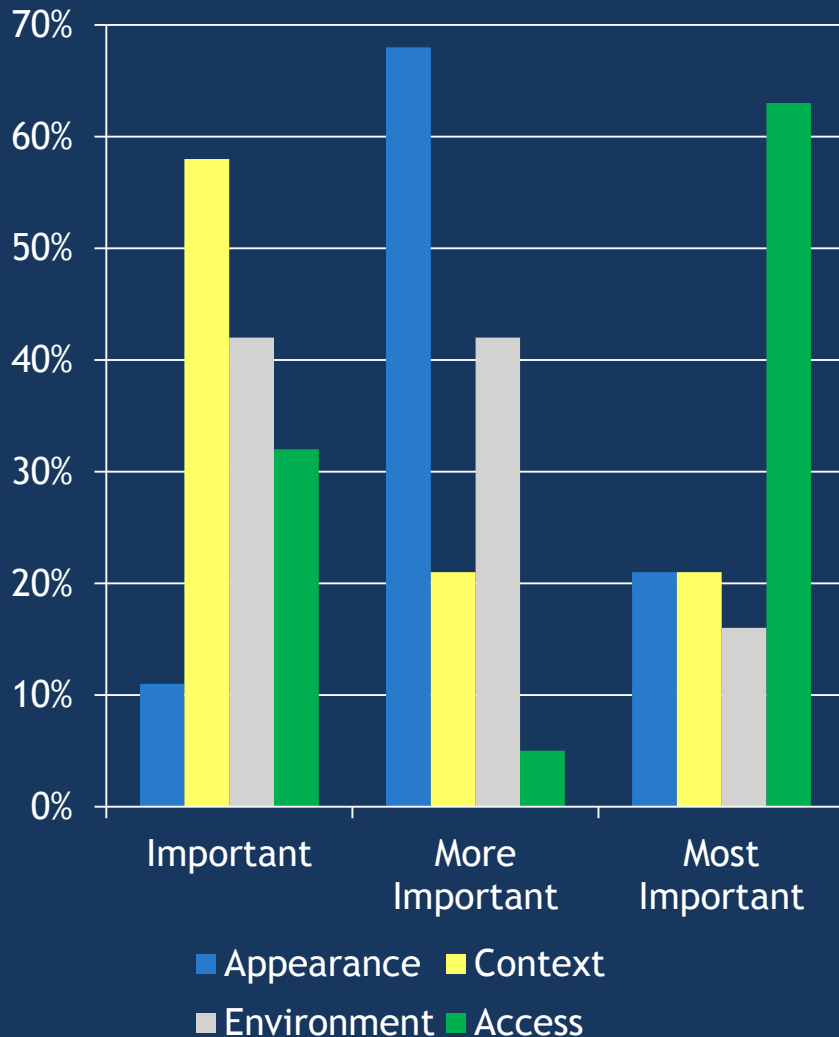
ACCESS

The station and its elements will make the transit experience pleasant and efficient

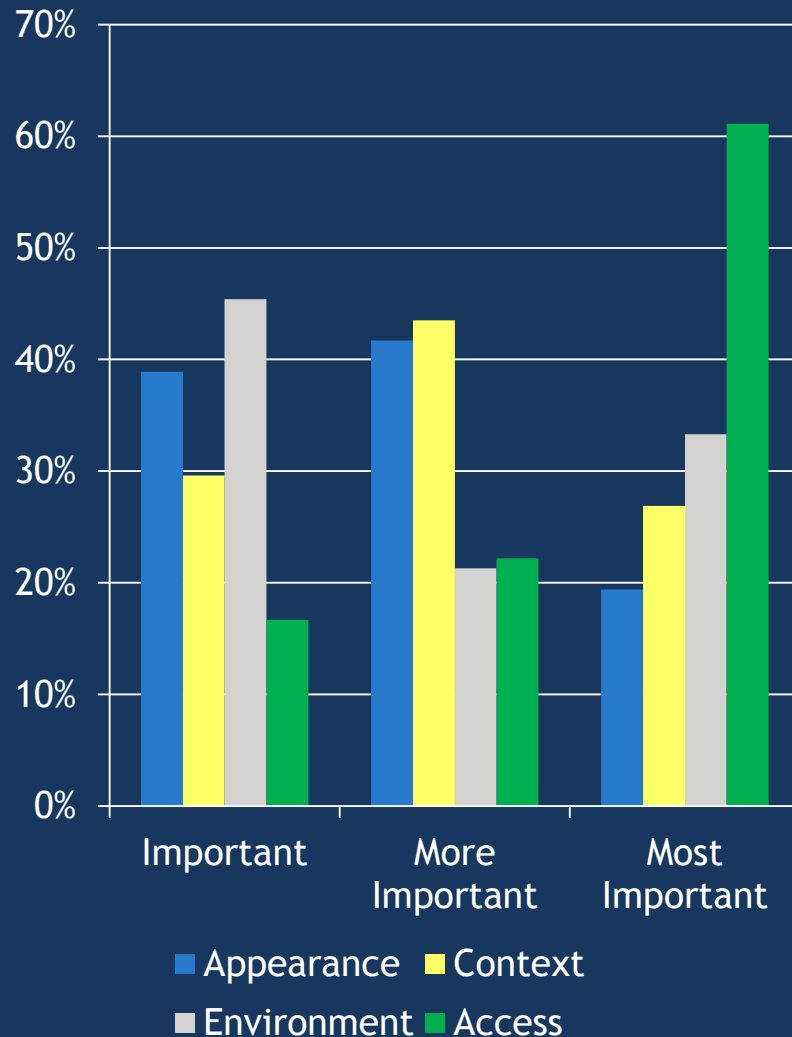


WHAT WE HEARD - DESIGN PRINCIPLES

PYMIG



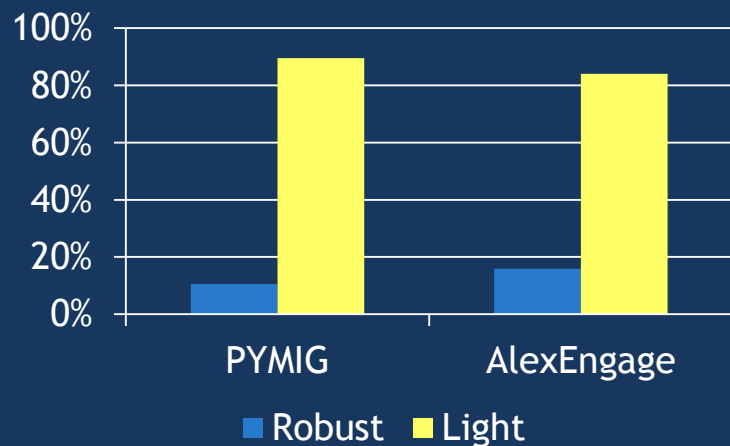
AlexEngage



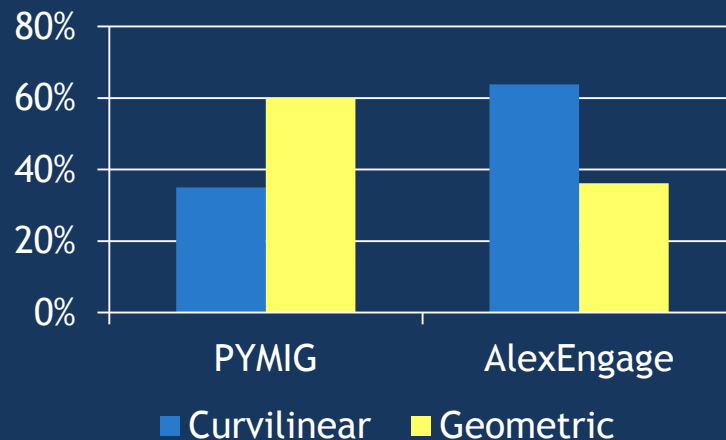


WHAT WE HEARD - DESIGN STRATEGIES

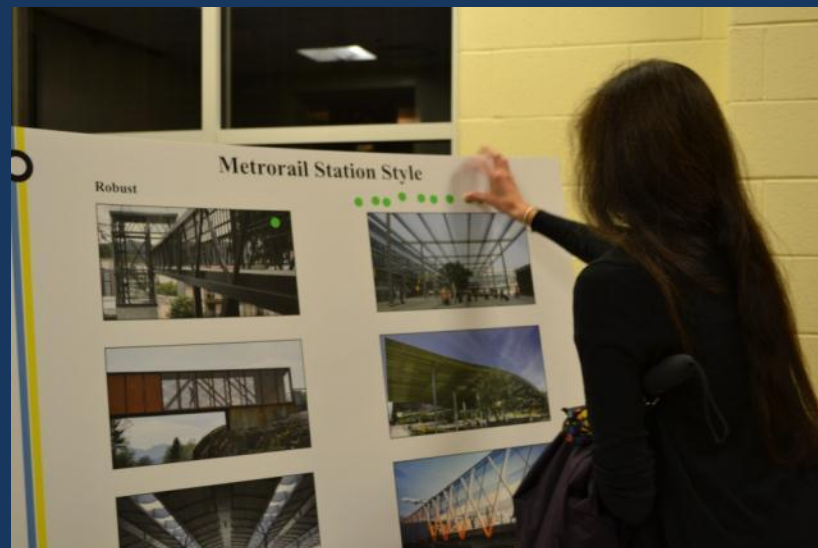
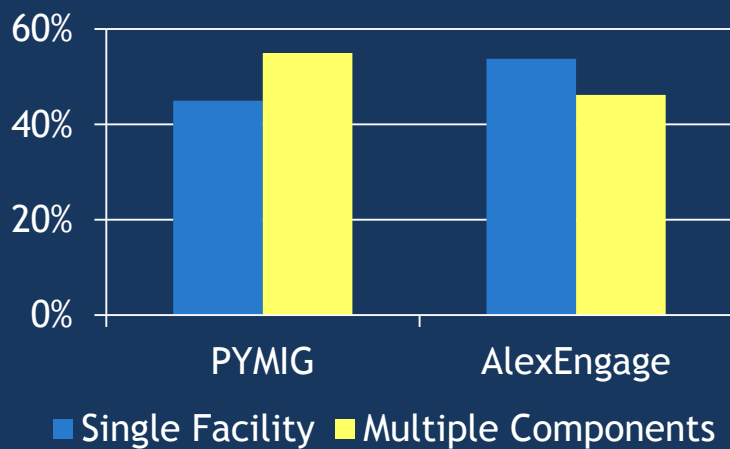
Robust vs Light



Curvilinear vs Geometric



Single vs Multiple



WHAT WE HEARD - POTOMAC GREENS PARK



A 40.9%



B 31.8%



C 62.1%



D 47.0%



E 53.0%



F 34.8%



G 57.6%



H 27.3%



I 57.6%



J 60.6%



K 27.3%



L 27.3%



VISUAL LANDSCAPE ASSESSMENT AND DESIGN STRATEGIES (2014)

VISUAL LANDSCAPE ASSESSMENT AND DESIGN STRATEGIES (2014)

APPROACH

a summary of considerations for assessing and minimizing the impact of Potomac Yard Metrorail Station Build Alternatives

Roadway Sight Distance Theory



Visual Resource Mitigation



Ecological Restoration



Vegetation Permeability

Figure 15. Overall Approach

VISUAL RESOURCE MITIGATION

FHA Visual Impact Assessment for Highway Projects



BLM Visual Resource Management System



NPS Cultural Landscape Report

Figure 20. Summary of Visual Mitigation Approach

Figure 41. Overall Approach + Strategies

Design Principles

- Prioritize View Cones and Viewsheds of a Vehicle on the GWMP
- Propose Visual Buffer Elements with High Visual Quality and High Density



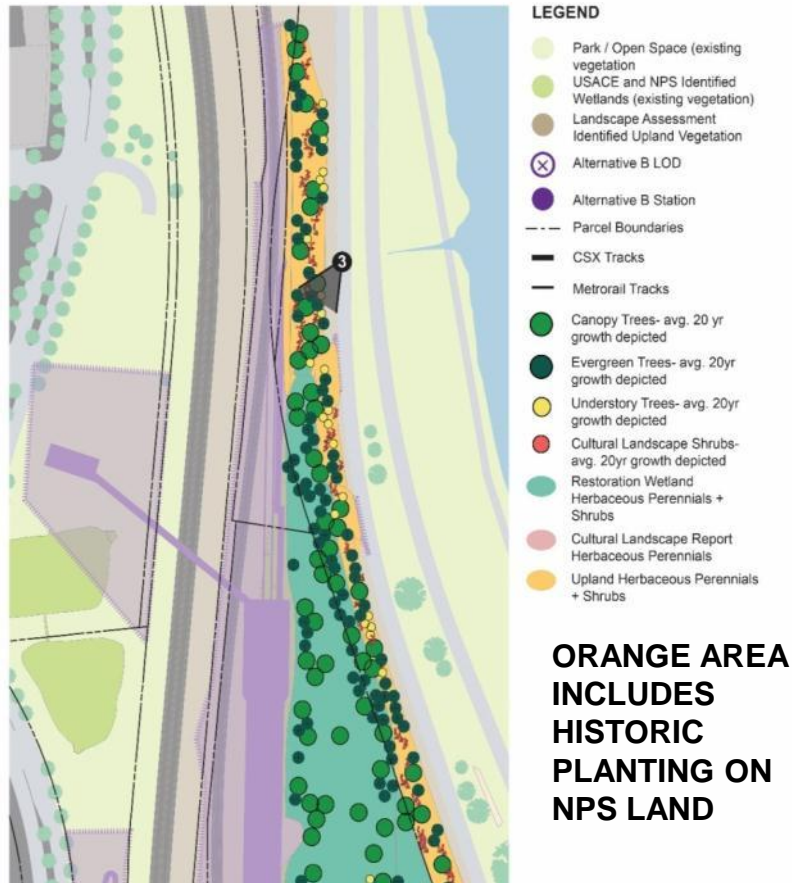
Design Strategies

- Site Protection + Construction Techniques
- Soil Stabilization + Management
- Earthwork
- Planting
- Wetland Restoration
- Stormwater Management
- Landscape Monitoring + Management
- Earthwork
- Built Elements

VISUAL LANDSCAPE ASSESSMENT AND DESIGN STRATEGIES (2014)

CONCEPTS

ALTERNATIVE B- RECOMMENDED PLANTING: ENLARGEMENT



ALTERNATIVE B - RECOMMENDED PLANTING LIST

COMMUNITY TYPES

Wetlands- Emergent (WE)
Wetlands-Forested (WF)
Slopes (S)
Disturbed (D)
Uplands (U)
Cultural Landscape Report (CLR)

*For full plant list, see Appendix

TREES

<i>Acer rubrum</i>	WF, S, U, CLR
<i>Alnus serrulata</i>	WF
<i>Amelanchier canadensis</i>	WF
<i>Carpinus caroliniana</i>	WF, U
<i>Chamaecyparis thyoides</i>	WF
<i>Chionanthus virginicus</i>	CLR
<i>Ilex opaca</i>	WF, CLR
<i>Liquidambar styraciflua</i>	WF, U, CLR
<i>Magnolia virginiana</i>	WF
<i>Nyssa sylvatica</i>	WF, S, CLR
<i>Pinus taeda</i>	WF
<i>Pinus virginiana</i>	CLR
<i>Prunus serotina</i>	CLR
<i>Ulmus americana</i> [disease resistant cultivars]	WF, U, CLR

SHRUBS

<i>Cephalanthus occidentalis</i>	WE, CLR
<i>Clethra alnifolia</i>	WE, S, CLR
<i>Cornus sericea</i>	WE, CLR
<i>Hamamelis virginiana</i>	CLR
<i>Hibiscus moscheutos</i>	WE
<i>Hydrangea arborescens</i>	S
<i>Ilex verticillata</i>	WE, U, CLR
<i>Rhus glabra</i>	CLR
<i>Rhus typhina</i>	CLR
<i>Rosa palustris</i>	WE
<i>Rosa virginiana</i>	CLR
<i>Sambucus racemosa</i>	S, CLR
<i>Viburnum dentatum</i>	WE, U, CLR

HERBS

<i>Aster divaricatus</i>	S
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<i>Carex albusina</i>	U
<i>Carex comosa</i>	WE
<i>Carex jamesii</i>	U
<i>Dryopteris marginalis</i>	S
<i>Eleocharis palustris</i>	WE
<i>Helenium autumnale</i>	WE
<i>Hibiscus moscheutos</i>	WE
<i>Impatiens capensis</i>	WF, WE
<i>Impatiens pallida</i>	U, S
<i>Isis versicolor</i>	WF
<i>Leersia oryzoides</i>	WE
<i>Nuphar luteum</i>	WF
<i>Osmunda cinnamomea</i>	WF
<i>Osmunda regalis</i>	WF
<i>Parthenocissus quinquefolia</i>	WF
<i>Peltandra virginica</i>	WF, WE
<i>Phlox divaricata</i>	U
<i>Pilea pumila</i>	U, S
<i>Polygonum arifolium</i>	WF
<i>Polygonum hydropiperoides</i>	WE
<i>Polygonum punctatum</i>	WE
<i>Polygonum sagittatum</i>	WE
<i>Polystichum acrostichoides</i>	S
<i>Portulaca cordata</i>	WE
<i>Rosa palustris</i>	U, WE
<i>Rudbeckia laciniata</i>	U
<i>Saururus cernuus</i>	WF
<i>Scirpus spp.</i> (pungens, fluviatilis, validus)	WE
<i>Scirpus validus</i>	WE
<i>Solidago flexicaulis</i>	S
<i>Thalictrum dioicum</i>	S
<i>Zizania aquatica</i>	WE

Note: Concepts were developed by the City of Alexandria to understand feasibility of visual mitigation; concepts have not been endorsed or adopted by the National Park Service

VISUAL LANDSCAPE ASSESSMENT AND DESIGN STRATEGIES (2014)



View 10 years after
planting, summer



View 20 years after
planting, winter

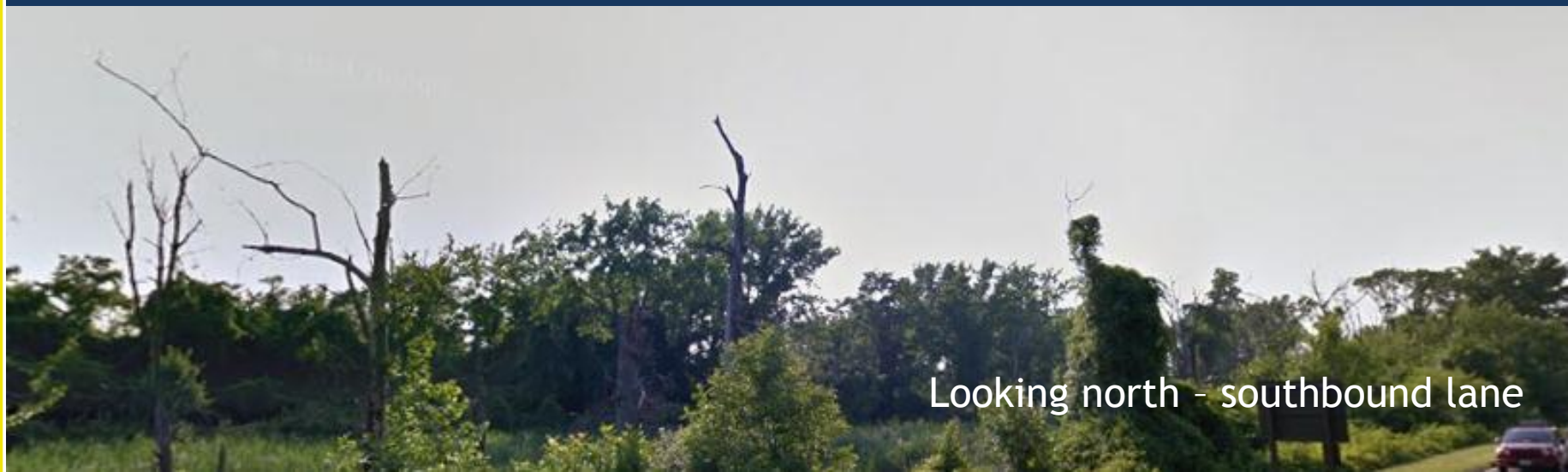
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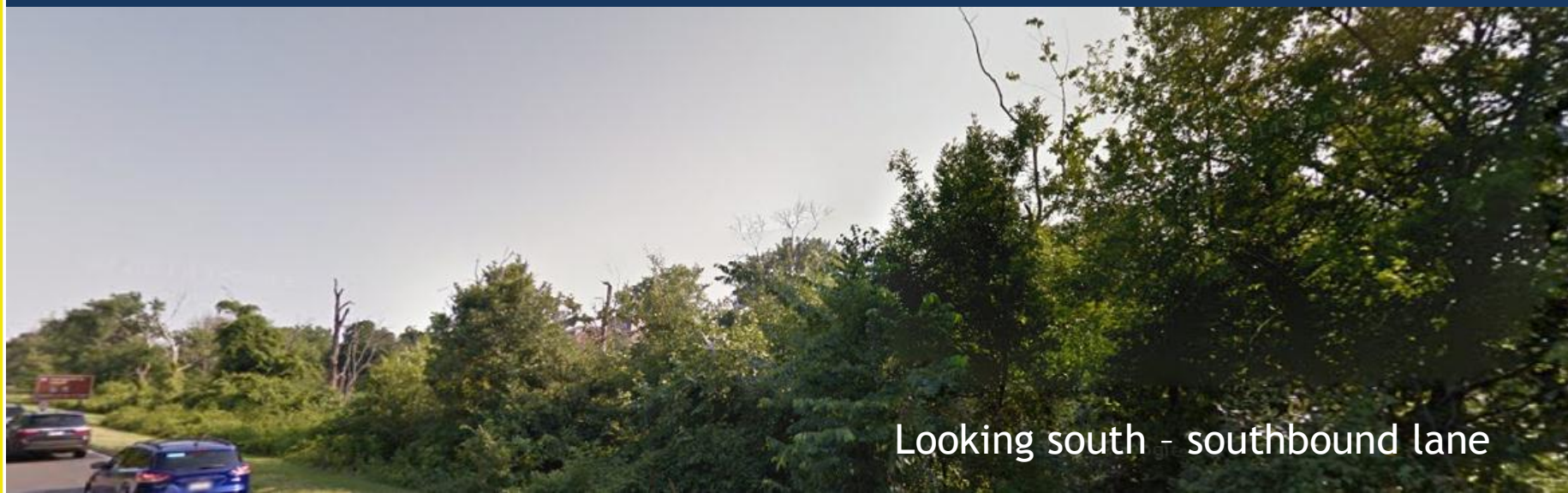
EXISTING CONTEXT



GEORGE WASHINGTON MEMORIAL PARKWAY



Looking north - southbound lane



Looking south - southbound lane

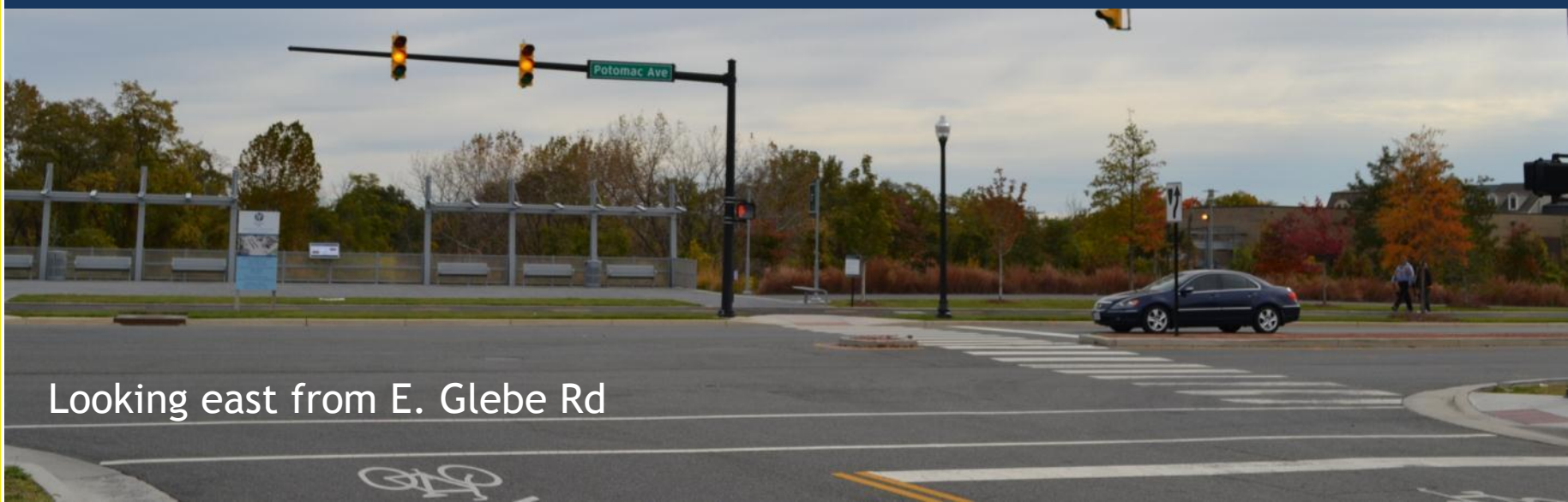


POTOMAC AVENUE

Looking north from McKenzie Ave



Looking east from E. Glebe Rd





MAIN LINE BOULEVARD

Looking northeast between E. Nelson and E. Alexandria Aves

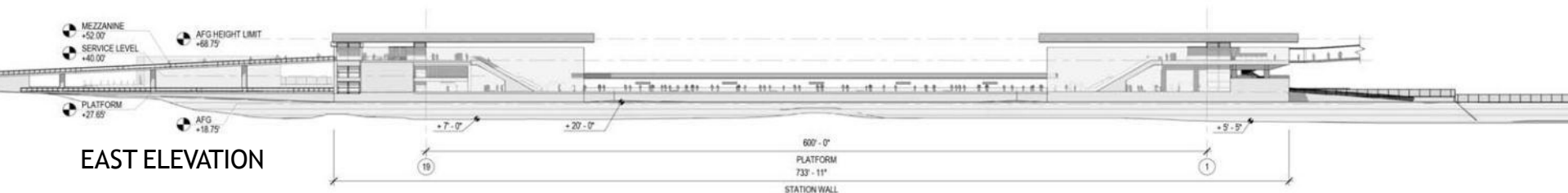




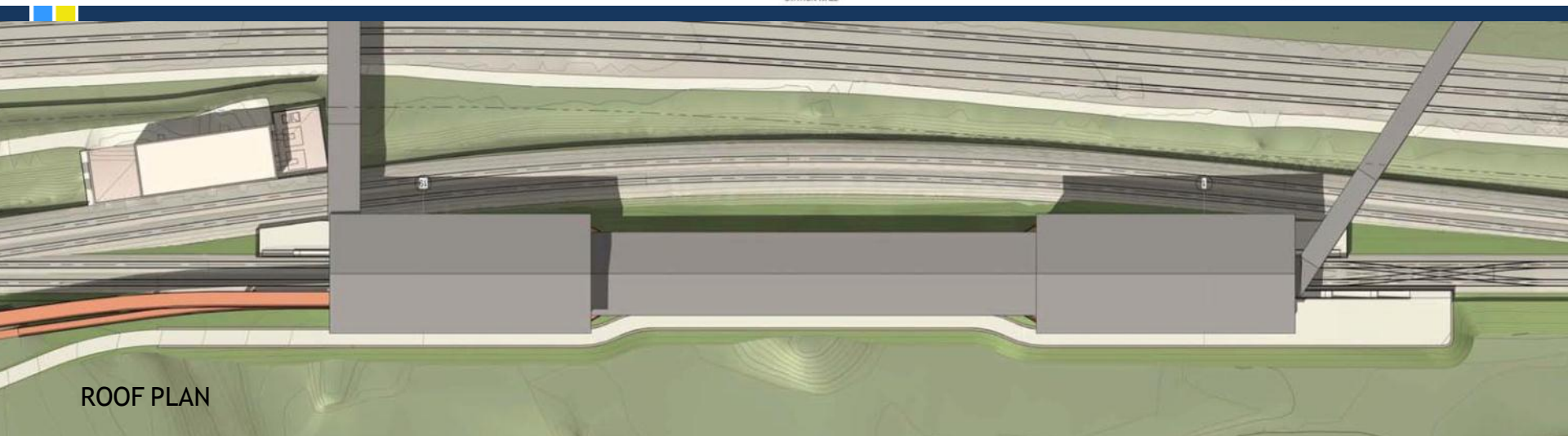
STATION ENCLOSURE FORMS

SPLIT FORM - GEOMETRIC

CONCEPTUAL SKETCH



EAST ELEVATION



ROOF PLAN



SPLIT FORM - GEOMETRIC

RENDERED VIEW LOOKING NORTHWEST



PROPOSED PLANTINGS (TREES, SHRUBS, GRASSES PROVIDED FOR WETLAND RESTORATION AND LANDSCAPE MITIGATION) HAVE BEEN OMITTED IN THEIR ENTIRETY TO SHOW STATION FORM



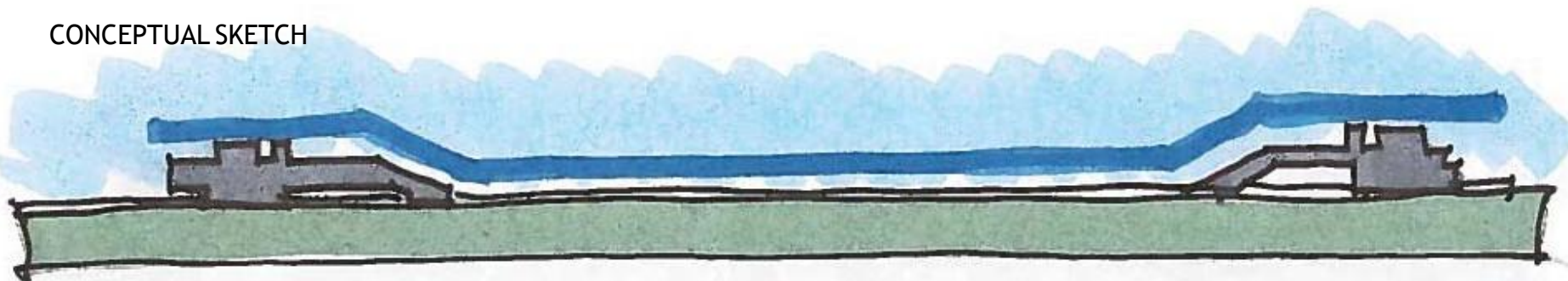
EXISTING VIEW FROM PARKWAY LOOKING NORTHWEST



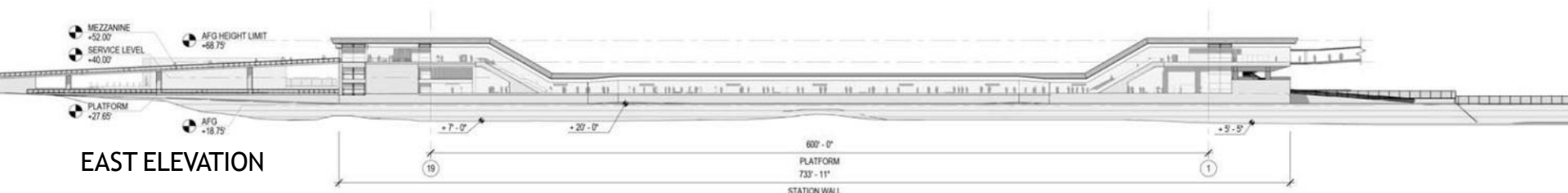
POTENTIAL VIEW FROM SOUTHBOUND PARKWAY LOOKING SOUTHWEST - 10 YEARS GROWTH OF NEW PLANTS (SUMMER)

SINGLE FORM - GEOMETRIC

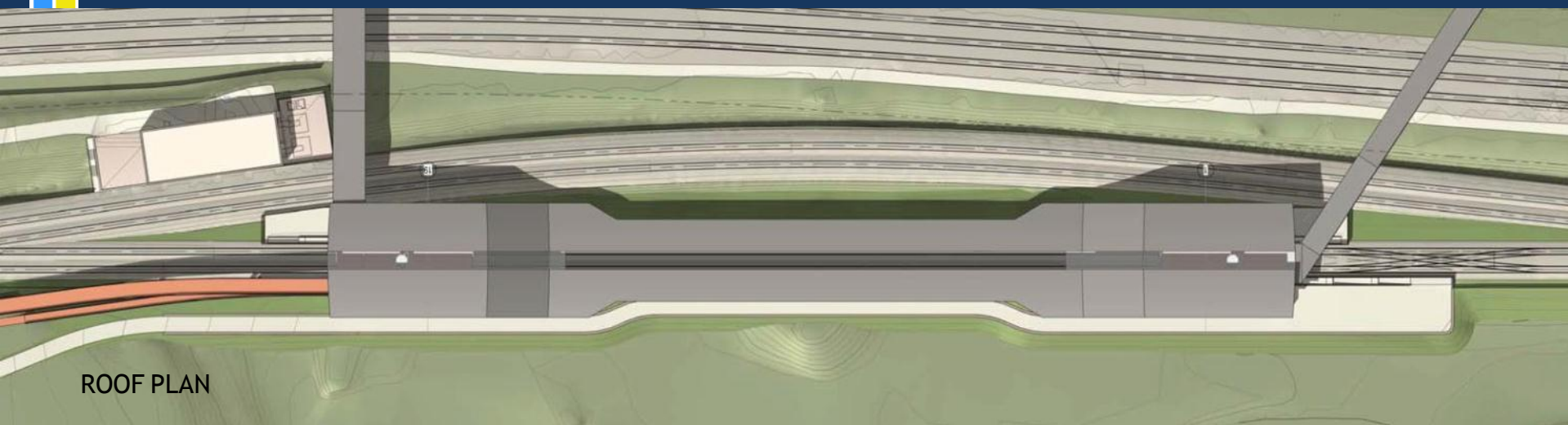
CONCEPTUAL SKETCH



EAST ELEVATION



ROOF PLAN



SINGLE FORM - GEOMETRIC

RENDERED VIEW LOOKING NORTHWEST



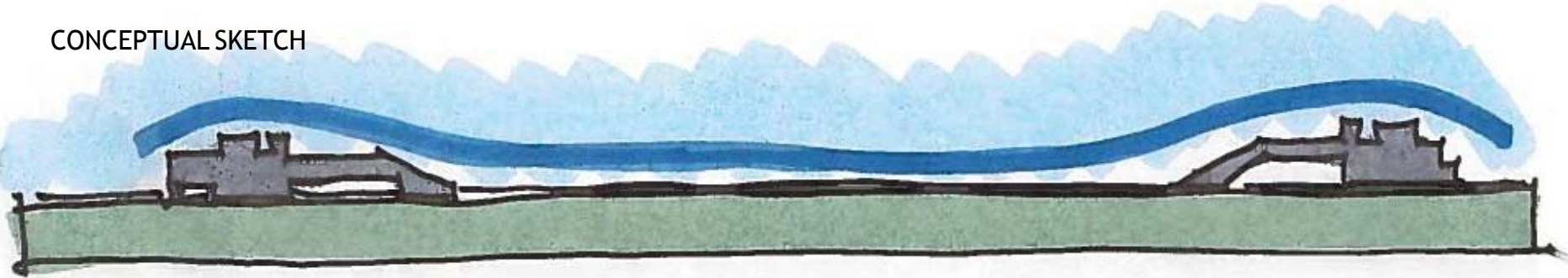
EXISTING VIEW FROM PARKWAY LOOKING NORTHWEST



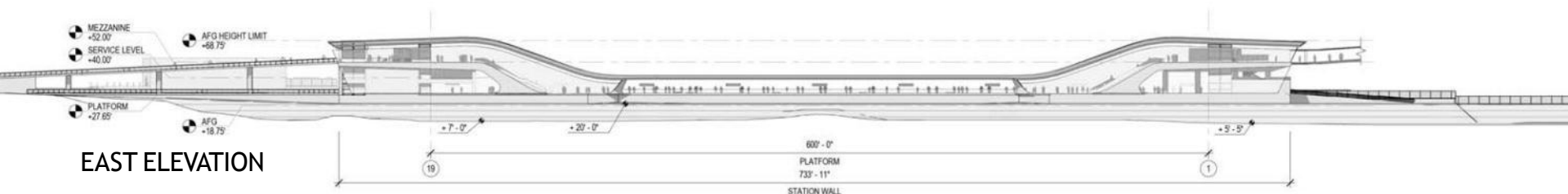
POTENTIAL VIEW FROM SOUTHBOUND PARKWAY LOOKING SOUTHWEST - 10 YEARS GROWTH OF NEW PLANTS (SUMMER)

SINGLE FORM - CURVILINEAR

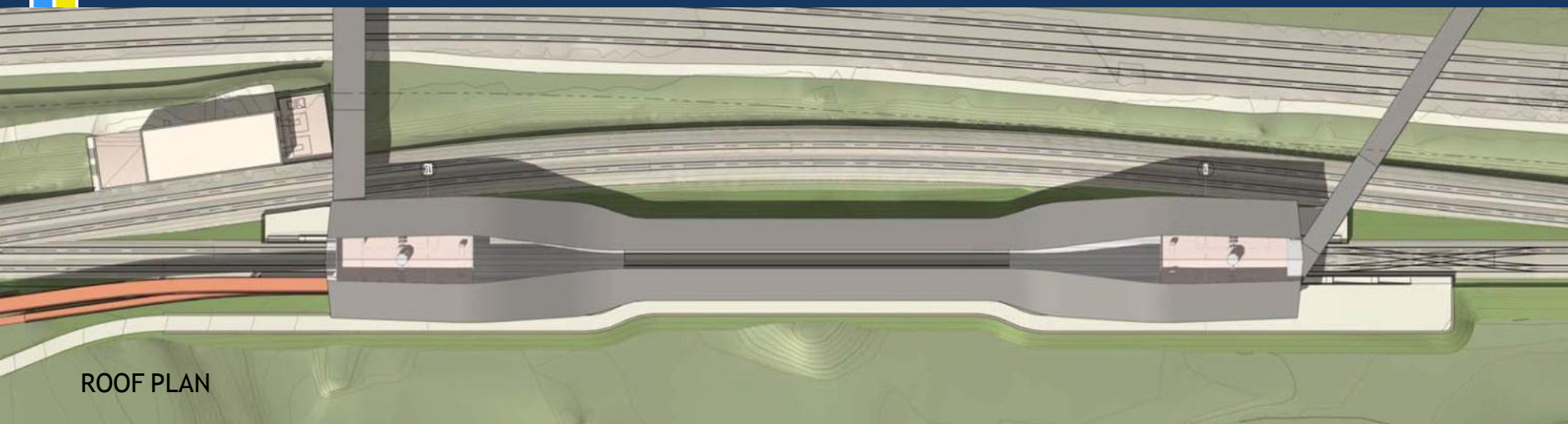
CONCEPTUAL SKETCH



EAST ELEVATION



ROOF PLAN



SINGLE FORM - CURVILINEAR

RENDERED VIEW LOOKING NORTHWEST



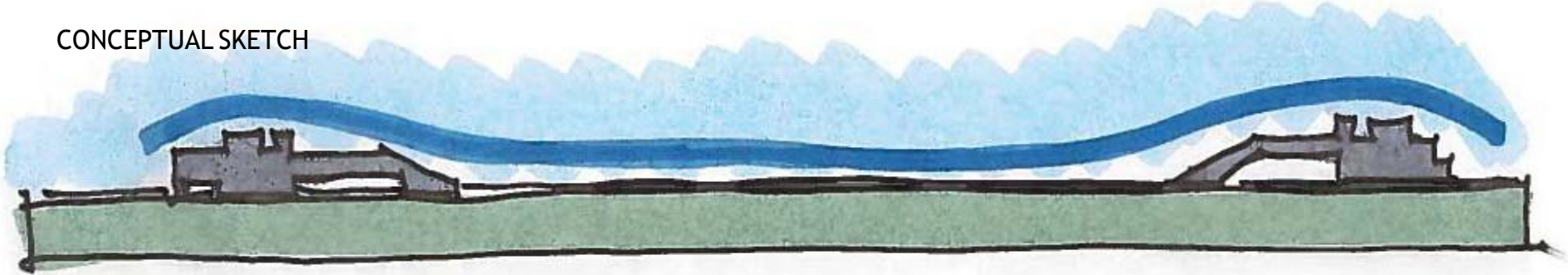
EXISTING VIEW FROM PARKWAY LOOKING NORTHWEST



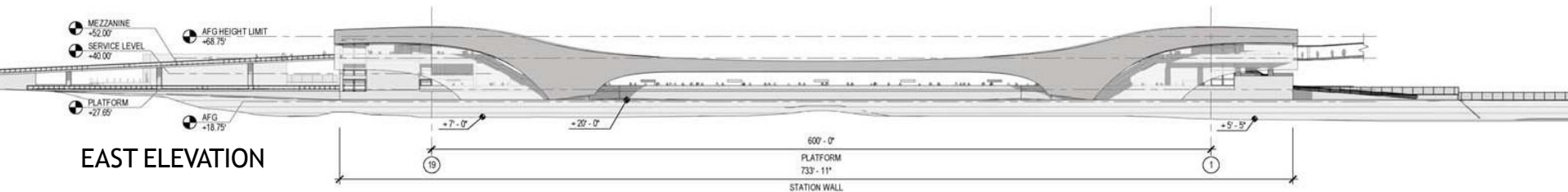
POTENTIAL VIEW FROM SOUTHBOUND PARKWAY LOOKING SOUTHWEST - 10 YEARS GROWTH OF NEW PLANTS (SUMMER)

SINGLE FORM - CURVILINEAR (ALTERNATE)

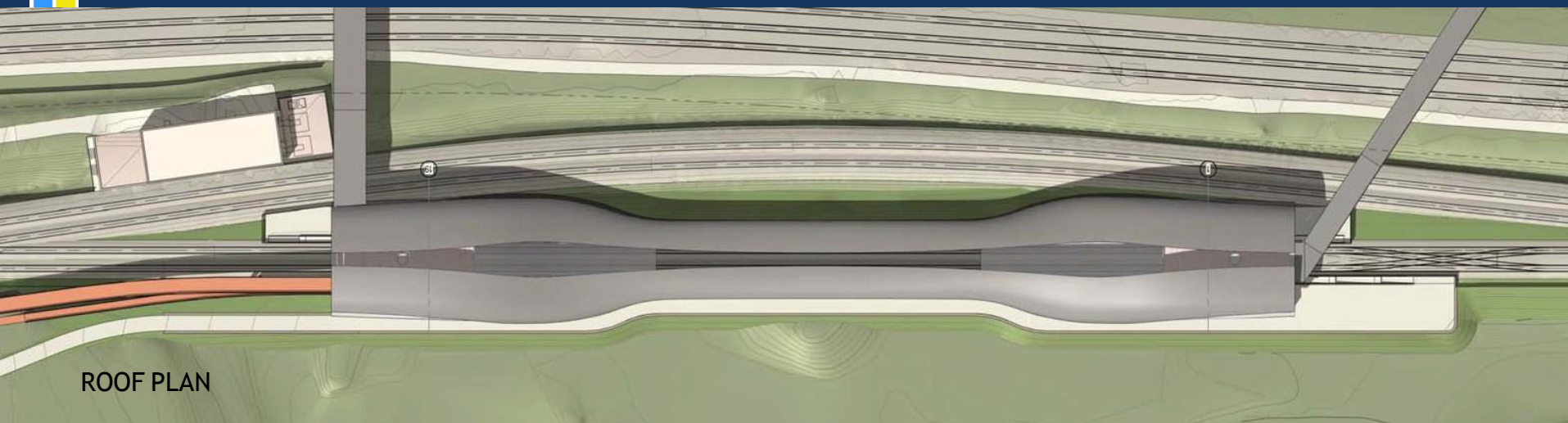
CONCEPTUAL SKETCH



EAST ELEVATION



ROOF PLAN



SINGLE FORM - CURVILINEAR (ALTERNATE)

RENDERED VIEW LOOKING NORTHWEST



EXISTING VIEW FROM PARKWAY LOOKING NORTHWEST

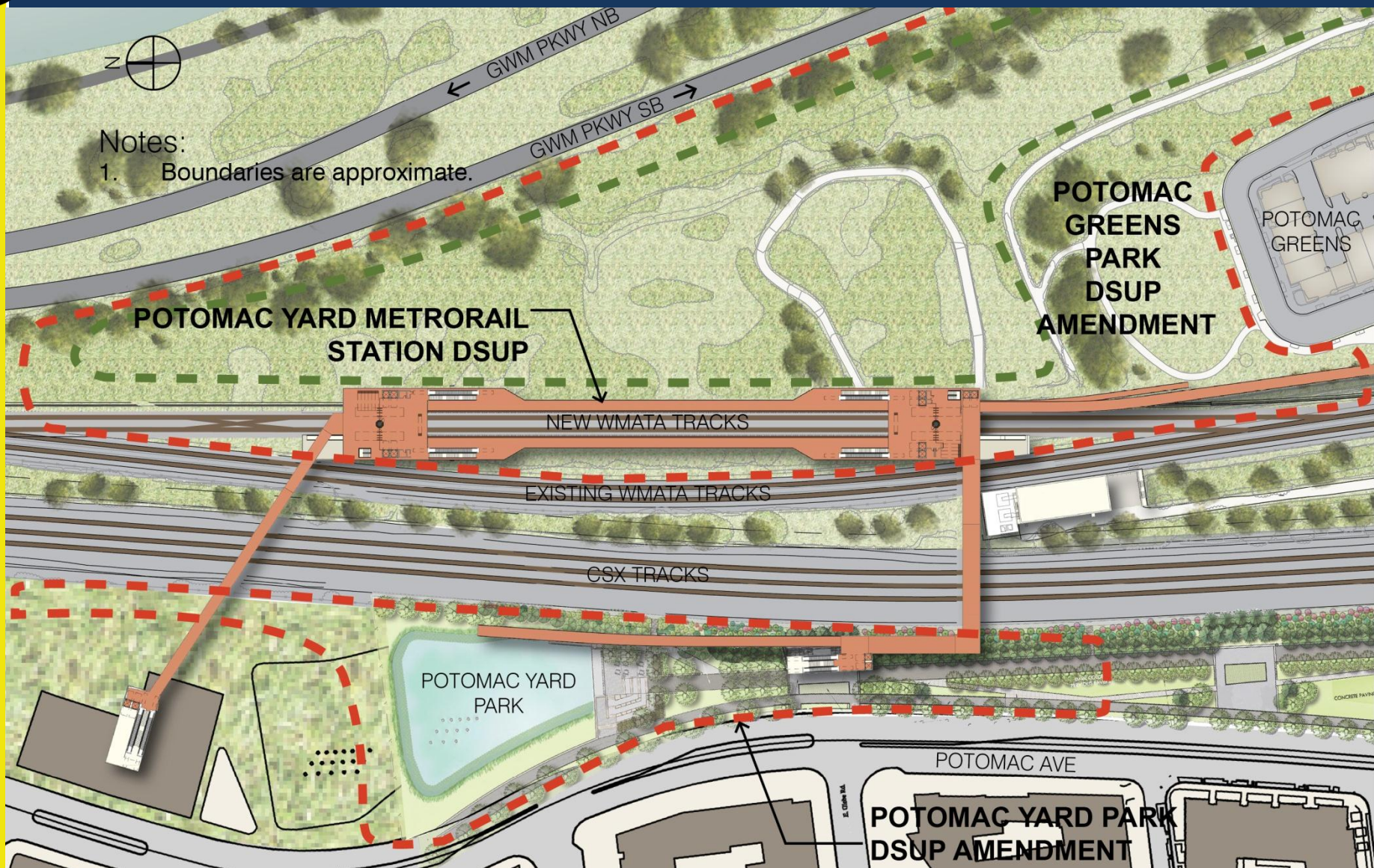


POTENTIAL VIEW FROM SOUTHBOUND PARKWAY LOOKING SOUTHWEST - 10 YEARS GROWTH OF NEW PLANTS (SUMMER)



POTOMAC GREENS PARK CONCEPTS

CITY APPROVALS



ACTIVITY AND PROGRAMMING



Option 1



Option 2



Option 3

Most Passive ← → Least Passive

Least Programmed ← → Most Programmed

PROGRAM ELEMENTS & LAYOUT



Option 1

Nature Play + Play Structure
Large, Flexible Open Space



Option 2

Picnic Grove + Tables
Shelter for Picnics
Play Mounds + Play Structure



Option 3

Shelter for Picnics +
Performances
Playground for Different Ages
Picnic Table



SMALL GROUP DISCUSSION



GROUP EXERCISE

STATION ENCLOSURE FORMS

PROPOSED PLANTINGS (TREES, SHRUBS, GRASSES PROVIDED FOR WETLAND RESTORATION AND LANDSCAPE MITIGATION) HAVE BEEN OMITTED IN THEIR ENTIRETY TO SHOW STATION FORM



SPLIT FORM GEOMETRIC



SINGLE FORM GEOMETRIC



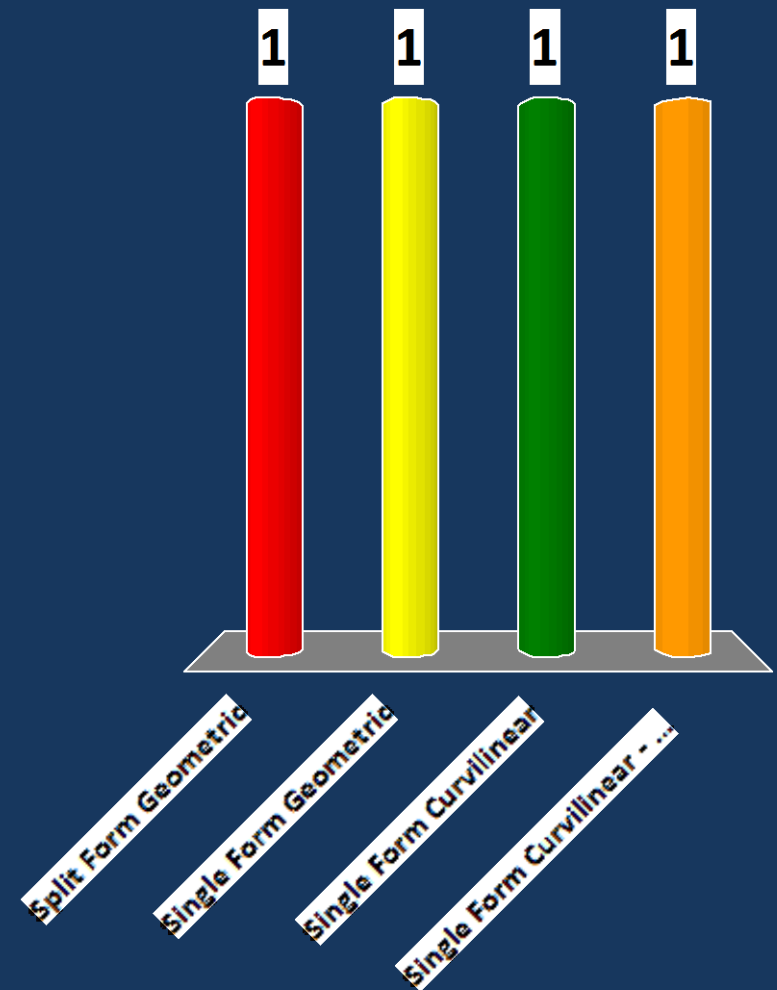
SINGLE FORM CURVILINEAR



SINGLE FORM CURVILINEAR - ALTERNATE

PLEASE RANK THE STATION ENCLOSURE FORMS IN ORDER OF PREFERENCE:

- A. Split Form Geometric
- B. Single Form Geometric
- C. Single Form Curvilinear
- D. Single Form Curvilinear - Alternate



PARK CONCEPTS



Option 1

Nature Play + Play Structure
Large, Flexible Open Space



Option 2

Picnic Grove + Tables
Shelter for Picnics
Play Mounds + Play Structure

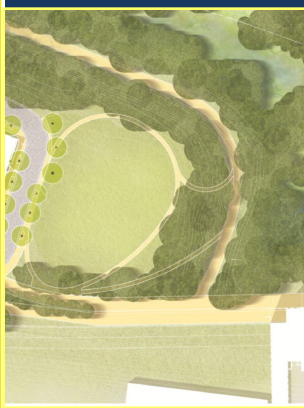


Option 3

Shelter for Picnics +
Performances
Playground for Different Ages
Picnic Table

PLEASE RANK THE PARK CONCEPTS IN ORDER OF PREFERENCE

- A. Option 1
- B. Option 2
- C. Option 3



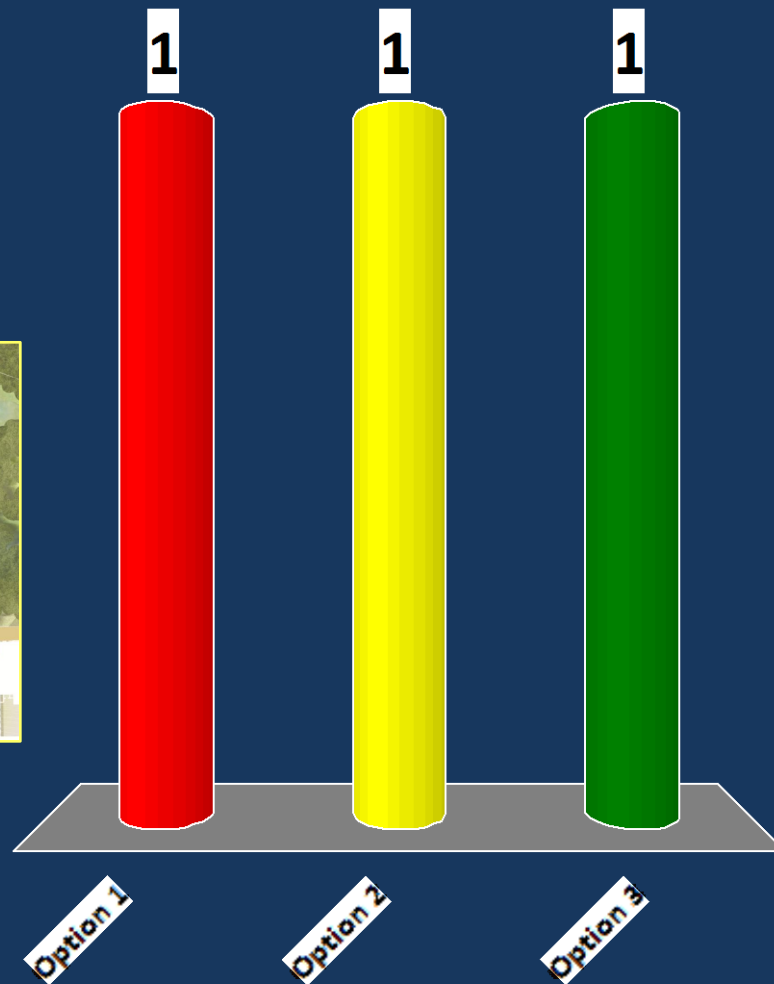
Option 1



Option 2



Option 3





NEXT STEPS



NEXT STEPS

- Develop design concept
- Develop park concept
- Update Boards and Commissions
- Update City Council
- Finalize EIS
- **Next PYMIG Meeting: December 14**



QUESTIONS?

**For more information, visit:
www.alexandriava.gov/PotomacYard**